(Please write your Exam Roll No.) Exam Roll No. 09212140210

END TERM EXAMINATION

FIRST SEMESTER [BCA]- DECEMBER 2010

Paper Code: BCA107 *Subject: Fundamentals of Information Technology*
Paper ID: 20107

Time : 3 Hours *Maximum Marks : 75*

Note: Attempt five questions including Q.1 which is compulsory. Select one question from each unit.

Q1 (a) What is parallel computer? What is its application?
(b) Distinguish between compiler and interpreter.
(c) Define database. Discuss different types of databases.
(d) Explain IP Addressing.
(e) Discuss different types of random access memories.
(f) How is Intranet different from Internet?
(g) Differentiate between Digital and Analog Transmission.
(h) What are the different modes of data transmission?
(i) Explain Flynn's classification of computers.
(j) Write notes on serial and parallel access devices. **(10x2.5=25)**

UNIT-I

Q2 Describe Von-Neuman Architecture of computer. Explain function of various units of a computer. **(12.5)**

Q3 (a) Classify computers according to principle and speed. **(6.5)**

(b) Discuss any two input and output devices. **(6)**

UNIT-II

Q4 Explain generation of computers with their characteristics. **(12.5)**

Q5 (a) Draw a flowchart for finding the average of 'N' numbers. **(7)**

(b) Write a pseudocode for displaying the largest of three inputted numbers. **(5.5)**

UNIT-III

Q6 (a) Explain three-schema architecture for database. **(7.5)**

(b) Discuss logical and physical data independence. **(5)**

Q7 What is an Operating System? Why is it required? What are it's functions? What is difference between a program and a process? **(12.5)**

UNIT-IV

Q8 Explain Open System Interconnection (OSI) Model. **(12.5)**

Q9 Discuss Local Area, Wide Area and Metropolitan Area Networks. **(12.5)**

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